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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/822,548	03/30/2001	Matthew D. Wood	42390P10451	7654	
	7590 06/19/2007 Michael A. DeSanctis			EXAMINER	
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor 12400 Wilshire Bouleyard			PYZOCHA, MICHAEL J		
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Los Angeles, CA 90025-1026			2137		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Office Assistant Commencer	09/822,548	WOOD ET AL.
Office Action Summary	Examiner	Art Unit
	Michael Pyzocha	2137
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tir  ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tir  ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tir  ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tir  ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tir  ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tir  ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tir  ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tir  ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tir  ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tir  ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tir  ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tir  ATE OF THIS COMMUNICATION  16(a). ATE OF THIS	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>30 Ap</u> This action is <b>FINAL</b> . 2b) ☐ This     Since this application is in condition for allowan closed in accordance with the practice under Experience.	action is non-final. ace except for formal matters, pro	
Disposition of Claims	•	
4) ⊠ Claim(s) <u>1-3,5-9,17-19,25-27,29 and 30</u> is/are page 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-3,5-9,17-19,25-27,29 and 30</u> is/are page 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	rejected.	
Application Papers		•
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	epted or b) objected to by the drawing(s) be held in abeyance. Second is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application in the control of the contr	on No ed in this National Stage
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Attachment(c)		
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

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### DETAILED ACTION

- 1. Claims 1-3, 5-9, 17-19, 25-27, and 29-30 are pending.
- 2. Amendment files 04/30/2007 has been received and considered.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3, 5-9, 17-19, 25-27, and 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matyas, Jr. et al (US 6687375), in view of Chen et al (US 6182220), in view of Hardy et al (US 6073242), in view of Menezes et al (Handbook of Applied Cryptography) and further in view of Bening et al. (US 6061819).

As per claims 1, 17 and 25, Matyas Jr. et al discloses initializing a pseudo-random number generator (PRNG); obtaining local seeding information from a host; obtaining additional seeding information from one or more sources; and mixing the

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PRNG with the local seeding information and the additional seeding information (see column 9 lines 19-34 and 45-67) to perform one or more of providing an unpredictable system status, amplifying entropy, and enhancing system security (see column 9 lines 45-67).

Matyas Jr. et al fails to disclose securely obtaining additional seeding information from remote entropy servers.

However, Chen et al teaches obtaining seeding information from a remote entropy server (see column 1 line 66 through column 2 line 9).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to obtain the additional seeding information of Matyas Jr. et al from the server of Chen et al.

Motivation to do so would have been too update passwords on the server (see Chen et al column 4 lines 15-39).

The modified Matyas Jr. et al and Chen et al system fails to disclose the communication between host and server being secure.

However, Hardy et al teaches secure communications (see column 3 lines 54-67).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use Hardy et al's

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method of secure communications in the modified system of Matyas

Jr. et al and Chen et al system.

Motivation to do so would have been to provide confidentiality, authentication and integrity to the communications (see column 3 lines 54-67).

The modified Matyas Jr. et al, Chen et al, and Hardy et al system fails to disclose the specific method of securely obtaining the keys, data and obtaining seeding information from each location.

However, Menezes et al teaches the key exchanging (see section 12.5.1), the use of temporary keys (see page 494), the use of a public key encryption scheme (see section 1.8.1) and obtaining a large amount of seeding information (see pages 170-171).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use the methods of Menezes et al to securely obtain the seeding information of the modified Matyas Jr. et al, Chen et al, and Hardy et al system and for the obtaining to be repeated.

Motivation to do so would have been to transport the key (see section 12.5.1), to limit the available ciphertext (see page 494), only the private key must be kept secret (see section

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1.8.4) and seeds should be sufficiently large so that a search of all seeds in infeasible (see page 171).

The modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system fails to explicitly disclose providing an unpredictable system status to amplify entropy based on seeding information.

However, Bening et al. teaches such a system status (see column 3 lines 37-51).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use the seeding information of the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system to provide an unpredictable system status.

Motivation to do so would have been to eliminate any correlation between values (see Bening et al. column 3 lines 37-51).

As per claims 2-3 and 26-27, the modified Matyas Jr. et al, Chen et al, Hardy et al, Menezes et al and Bening et al. system discloses the initializing the PRNG comprises initializing the internal state of the PRNG with a random value that is a seed (see Matyas Jr. et al column 9 lines 19-34).

As per claims 5 and 29, the modified Matyas Jr. et al, Chen et al, Hardy et al, Menezes et al and Bening et al. system

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discloses remote entropy servers maintain random state pool to supply the host with the random value (see Matyas Jr. et al column 9 lines 45-67).

As per claim 6-8, the modified Matyas Jr. et al, Chen et al, Hardy et al, Menezes et al and Bening et al. system discloses the obtaining of the remote seeding information from the remote entropy servers is performed via a privacy protocol, wherein the privacy protocol comprises secure sockets layer (SSL) protocol and transport layer security (TLS) protocol (see Hardy et al column 3 lines 54-67).

As per claims 9 and 30, the modified Matyas Jr. et al, Chen et al, Hardy et al, Menezes et al and Bening et al. system discloses the stirring the PRNG comprises producing a cryptographically random stream of bits (see Matyas Jr. et al column 9 lines 45-67).

As per claim 18, the modified Matyas Jr. et al, Chen et al, Hardy et al, Menezes et al and Bening et al. system discloses the local system generates local seeding information (see Matyas Jr. et al column 9 lines 45-67).

As per claim 19, the modified Matyas Jr. et al, Chen et al, Hardy et al, Menezes et al and Bening et al. system discloses the remote computer systems are to generate the remote seeding

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information via the remote entropy servers (see Chen et al column 1 line 66 through column 2 line 9).

## Response to Arguments

Applicant's arguments filed 04/30/2007 have been fully considered but they are not persuasive. Applicant argues that Chen fails to disclose obtaining seeding information from a remote entropy server and none of the references teaches the claims as amended.

With respect to Applicant's argument that Chen fails to disclose obtaining seeding information from a remote entropy server, in column 2 lines 1-2 Chen teaches that the server communicates to the client a random seed value. The server is remote from the client and it is providing information to create a random value so it is a remote entropy server and the client is clearly obtaining the seeding information from this server. Therefore, Chen teaches obtaining seeding information from a remote entropy server.

Applicant's arguments with respect to the amendments to claims 1, 17, and 25 have been considered but are moot in view of the new ground(s) of rejection.

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#### Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sprunk teaches the use of a seed to provide an unpredictable system status to amplify entropy.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael

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Pyzocha whose telephone number is (571) 272-3875. The examiner can normally be reached on 7:00am - 4:30pm first Fridays of the bi-week off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJP

EMMANUEL L. MOISE
SUPERVISORY PATENT EXAMINER